

Building Sustainability Index www.basix.nsw.gov.au

Multi Dwelling

Certificate number: 569345M 02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 18/09/2014 published by Planning & Infrastructure. This document is available at www.basix.nsw.gov.au

Director-General
Date of issue: Friday, 18 December 2015
To be valid, this certificate must be lodged within 3 months of the date of issue.



BASIX

| Project summary | | | | | |
|--|-------------------------------------|--|--|--|--|
| Project name | 18 Honeysuckle Drive, Newcastle_02 | | | | |
| Street address | 18 Honeysuckle Drive Newcastle 2300 | | | | |
| Local Government Area | Newcastle City Council | | | | |
| Plan type and plan number | deposited 1113281 | | | | |
| Lot no. | 1 | | | | |
| Section no. | - | | | | |
| No. of residential flat buildings | 1 72 0 | | | | |
| No. of units in residential flat buildings | | | | | |
| No. of multi-dwelling houses | | | | | |
| No. of single dwelling houses | 0 | | | | |
| Project score | | | | | |
| Water | √ 40 Target 40 | | | | |
| Thermal Comfort | ✓ Pass Target Pass | | | | |
| Energy | ✓ 20 Target 20 | | | | |

| Certificate Prepared by |
|---------------------------------------|
| Name / Company Name: Bridgett Glasson |
| ABN (if applicable): N/A |

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Description of project

| Project address | | | | |
|--|-------------------------------------|--|--|--|
| Project name | 18 Honeysuckle Drive, Newcastle_02 | | | |
| Street address | 18 Honeysuckle Drive Newcastle 2300 | | | |
| Local Government Area | Newcastle City Council | | | |
| Plan type and plan number | deposited 1113281 | | | |
| Lot no. | 1 | | | |
| Section no. | - | | | |
| Project type | | | | |
| No. of residential flat buildings | 1 | | | |
| No. of units in residential flat buildings | 72 0 0 | | | |
| No. of multi-dwelling houses | | | | |
| No. of single dwelling houses | | | | |
| Site details | | | | |
| Site area (m²) | 4129 | | | |
| Roof area (m²) | 976 | | | |
| Non-residential floor area (m²) | 1137 | | | |
| Residential car spaces | 71 | | | |
| Non-residential car spaces | 147 | | | |

| Common area landscape | | | | | |
|--|-------------|-------------|--|--|--|
| Common area lawn (m²) | 0 | | | | |
| Common area garden (m²) | 65 | | | | |
| Area of indigenous or low water use species (m²) | 0 | | | | |
| Assessor details | | | | | |
| Assessor number | 100016 | | | | |
| Certificate number | 1008722518 | | | | |
| Climate zone | 15 | | | | |
| Project score | | | | | |
| Water | ✓ 40 | Target 40 | | | |
| Thermal Comfort | ✓ Pass | Target Pass | | | |
| Energy | ✓ 20 | Target 20 | | | |

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Description of project

The tables below describe the dwellings and common areas within the project

Residential flat buildings - Edition Apartments , 72 dwellings, 10 storeys above ground

| Dwelling no. | No. of bedrooms | Conditioned floor area (m²) | Unconditioned floor area (m²) | Area of garden & lawn (m²) | Indigenous species (min area m²) | Dwelling no. | | No. of bedrooms | Conditioned floor area (m²) | Unconditioned floor area (m²) | Area of garden & |
|--------------|-----------------|--------------------------------|----------------------------------|-------------------------------|-------------------------------------|--------------|----|-----------------|--------------------------------|----------------------------------|------------------|
| 200 | 2 | 69.7 | 4.1 | 0 | 0 | 20 | 1 | 1 | 76.0 | 4.0 | 0 |
| 303 | 2 | 69.0 | 4.0 | 0 | 0 | 30 | 4 | 2 | 69.0 | 4.0 | 0 |
| 307 | 1 | 48.0 | 4.0 | 0 | 0 | 30 | 8 | 1 | 50.0 | 3.0 | 0 |
| 401 | 1 | 50.0 | 4.0 | 0 | 0 | 40 | 2 | 2 | 69.0 | 4.0 | 0 |
| 405 | 2 | 69.0 | 4.0 | 0 | 0 | 40 | 6 | 2 | 76.0 | 4.0 | 0 |
| 409 | 1 | 50.0 | 3.0 | 0 | 0 | 41 | 0 | 2 | 69.0 | 4.0 | 0 |
| 503 | 2 | 69.0 | 4.0 | 0 | 0 | 50 | 14 | 2 | 69.0 | 4.0 | 0 |
| 507 | 1 | 48.0 | 4.0 | 0 | 0 | 50 | 8 | 1 | 50.0 | 3.0 | 0 |
| 601 | 1 | 50.0 | 4.0 | 0 | 0 | 60 | 2 | 2 | 69.0 | 4.0 | 0 |
| 605 | 2 | 69.0 | 4.0 | 0 | 0 | 60 | 6 | 2 | 76.0 | 4.0 | 0 |
| 609 | 1 | 50.0 | 3.0 | 0 | 0 | 61 | 0 | 2 | 69.0 | 4.0 | 0 |
| 703 | 2 | 69.0 | 4.0 | 0 | 0 | 70 | 4 | 2 | 69.0 | 4.0 | 0 |
| 707 | 1 | 48.0 | 4.0 | 0 | 0 | 70 | 8 | 1 | 50.0 | 3.0 | 0 |
| 801 | 1 | 50.0 | 4.0 | 0 | 0 | 80 | 2 | 2 | 69.0 | 4.0 | 0 |
| 805 | 2 | 69.0 | 4.0 | 0 | 0 | 80 | 6 | 2 | 76.0 | 4.0 | 0 |
| 809 | 1 | 50.0 | 3.0 | 0 | 0 | 81 | 0 | 2 | 69.0 | 4.0 | 0 |
| 903 | 2 | 69.0 | 4.0 | 0 | 0 | 90 | 4 | 2 | 69.0 | 4.0 | 0 |
| 907 | 1 | 48.0 | 4.0 | 0 | 0 | 90 | 8 | 1 | 50.0 | 3.0 | 0 |

| l | Dwelling no. | No. of bedrooms | Conditioned floor area (m²) | Unconditioned floor area (m²) | Area of garden & lawn (m²) | Indigenous species (min area m²) |
|---|--------------|-----------------|--------------------------------|----------------------------------|-------------------------------|-------------------------------------|
| | 301 | 1 | 50.0 | 4.0 | 0 | 0 |
| | 305 | 2 | 69.0 | 4.0 | 0 | 0 |
| | 309 | 1 | 50.0 | 3.0 | 0 | 0 |
| | 403 | 2 | 69.0 | 4.0 | 0 | 0 |
| | 407 | 1 | 48.0 | 4.0 | 0 | 0 |
| | 501 | 1 | 50.0 | 4.0 | 0 | 0 |
| | 505 | 2 | 69.0 | 4.0 | 0 | 0 |
| | 509 | 1 | 50.0 | 3.0 | 0 | 0 |
| | 603 | 2 | 69.0 | 4.0 | 0 | 0 |
| | 607 | 1 | 48.0 | 4.0 | 0 | 0 |
| | 701 | 1 | 50.0 | 4.0 | 0 | 0 |
| | 705 | 2 | 69.0 | 4.0 | 0 | 0 |
| | 709 | 1 | 50.0 | 3.0 | 0 | 0 |
| | 803 | 2 | 69.0 | 4.0 | 0 | 0 |
| | 807 | 1 | 48.0 | 4.0 | 0 | 0 |
| | 901 | 1 | 50.0 | 4.0 | 0 | 0 |
| | 905 | 2 | 69.0 | 4.0 | 0 | 0 |
| | 909 | 1 | 50.0 | 3.0 | 0 | 0 |

| Dwelling no. | No. of bedrooms | Conditioned floor area (m²) | Unconditioned floor area (m²) | Area of garden & lawn (m²) | Indigenous species (min area m²) |
|--------------|-----------------|--------------------------------|----------------------------------|-------------------------------|-------------------------------------|
| 302 | 2 | 50.0 | 4.0 | 0 | 0 |
| 306 | 2 | 76.0 | 4.0 | 0 | 0 |
| 310 | 2 | 69.0 | 4.0 | 0 | 0 |
| 404 | 2 | 69.0 | 4.0 | 0 | 0 |
| 408 | 1 | 50.0 | 3.0 | 0 | 0 |
| 502 | 2 | 69.0 | 4.0 | 0 | 0 |
| 506 | 2 | 76.0 | 4.0 | 0 | 0 |
| 510 | 2 | 69.0 | 4.0 | 0 | 0 |
| 604 | 2 | 69.0 | 4.0 | 0 | 0 |
| 608 | 1 | 50.0 | 3.0 | 0 | 0 |
| 702 | 2 | 69.0 | 4.0 | 0 | 0 |
| 706 | 2 | 76.0 | 4.0 | 0 | 0 |
| 710 | 2 | 69.0 | 4.0 | 0 | 0 |
| 804 | 2 | 69.0 | 4.0 | 0 | 0 |
| 808 | 1 | 50.0 | 3.0 | 0 | 0 |
| 902 | 2 | 69.0 | 4.0 | 0 | 0 |
| 906 | 2 | 76.0 | 4.0 | 0 | 0 |
| 910 | 2 | 69.0 | 4.0 | 0 | 0 |

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Description of project

The tables below describe the dwellings and common areas within the project

Common areas of unit building - Edition Apartments

| Common area | Floor area (m²) |
|--------------------------|-----------------|
| Lift car (No. 1) | - |
| GF BD Room (Residential) | 13.5 |
| PL.01 Fire Stair | 22 |
| L2 Fire Stair | 62 |
| L5 Fire Stair | 62 |
| GF Residential Foyer | 28 |
| L2 Corridor | 21 |
| L5 Corridor | 21 |

| Common area | Floor area (m²) |
|------------------------|-----------------|
| Lift car (No. 2) | - |
| PL.01 HW (Residential) | 13.5 |
| PL.02 Fire Stair | 22 |
| L3 Fire Stair | 62 |
| L6 Fire Stair | 62 |
| PL.02 Corridor | 10 |
| L3 Corridor | 21 |
| L6 Corridor | 21 |

| Floor area (m²) |
|-----------------|
| 15.5 |
| 44 |
| 62 |
| 62 |
| 62 |
| 21 |
| 21 |
| 21 |
| |

Common areas of the development (non-building specific)

| Common area | Floor area (m²) |
|----------------------------|-----------------|
| GF, PL.01 & PL.02 Car Park | 6974 |

| Common area | Floor area (m²) |
|--------------------------------|-----------------|
| PL.01 Garbage / Recycling Room | 69 |

| Common area | Floor area (m²) |
|-----------------------|-----------------|
| GF Pump Services Room | 47 |

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Schedule of BASIX commitments

- 1. Commitments for Residential flat buildings Edition Apartments
 - (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Comfort
 - (b) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 2. Commitments for multi-dwelling houses
- 3. Commitments for single dwelling houses
- 4. Commitments for common areas and central systems/facilities for the development (non-building specific)
 - (i) Water
 - (ii) Energy

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Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

1. Commitments for Residential flat buildings - Edition Apartments

(a) Dwellings

| (i) Water | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|--|------------------|------------------------------|-----------------|
| (a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below. | | | |
| (b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table). | ~ | ~ | |
| (c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it. | | • | V |
| (d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below. | | • | V |
| (e) The applicant must install: | | | |
| (aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and | | • | V |
| (bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling. | | ✓ | V |
| (e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below. | V | ~ | |
| (f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both). | | ~ | |
| (g) The pool or spa must be located as specified in the table. | • | ✓ | |
| (h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified. | ~ | ~ | ~ |

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| | | Fixtures | | | | | Appliances | | | Individual pool | | | | Individual spa | | |
|-----------------|--|-----------------------------|------------------------|-------------------------|-------------------------------------|---------------------------|----------------------|---------------------------|---------------|------------------|----------------|---------------------------|--------------|----------------|--|--|
| Dwelling no. | All shower- heads | All toilet flushing systems | All kitchen taps | All bathroom taps | HW recirculation or diversion | All clothes washers | All dish- washers | Volume (max volume) | Pool cover | Pool location | Pool shaded | Volume (max volume) | Spa cover | Spa shaded | | |
| 200 | 3 star (> 6 but <= 7.5 L/min) | 4 star | 4 star | 6 star | no | - | - | - | - | - | - | - | - | - | | |

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| | Fixtures | | | | | Appliances | | | Individual pool | | | | Individual spa | | | |
|----------------------|--|-----------------------------|------------------------|-------------------------|-------------------------------------|---------------------------|----------------------|---------------------------|-----------------|------------------|----------------|---------------------------|----------------|---------------|--|--|
| no. | All shower- heads | All toilet flushing systems | All kitchen taps | All bathroom taps | HW recirculation or diversion | All clothes washers | All dish- washers | Volume (max volume) | Pool cover | Pool location | Pool shaded | Volume (max volume) | Spa cover | Spa shaded | | |
| 201, 301, 302, | 3 star (> 6 but <= 7.5 L/min) | 4 star | 4 star | 6 star | no | | | | | | | | | | | |

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| | | | Fixtur | es | | Appli | ances | | Indi | vidual pool | | In | dividual | spa |
|-----------------|-------------------------|-----------------------------|------------------------|-------------------------|-------------------------------|---------------------------|----------------------|---------------------------|---------------|------------------|----------------|---------------------------|--------------|---------------|
| Dwelling no. | All shower- heads | All toilet flushing systems | All kitchen taps | All bathroom taps | HW recirculation or diversion | All clothes washers | All dish- washers | Volume (max volume) | Pool cover | Pool location | Pool shaded | Volume (max volume) | Spa cover | Spa shaded |
| 610, | | | | | | | | | | | | | | |
| 701, | | | | | | | | | | | | | | |
| 702, | | | | | | | | | | | | | | |
| 703, | | | | | | | | | | | | | | |
| 704, | | | | | | | | | | | | | | |
| 705, | | | | | | | | | | | | | | |
| 706, | | | | | | | | | | | | | | |
| 707, | | | | | | | | | | | | | | |
| 708, | | | | | | | | | | | | | | |
| 709, | | | | | | | | | | | | | | |
| 710, | | | | | | | | | | | | | | |
| 301, | | | | | | | | | | | | | | |
| 302, | | | | | | | | | | | | | | |
| 803, | | | | | | | | | | | | | | |
| 804, | | | | | | | | | | | | | | |
| 305, | | | | | | | | | | | | | | |
| 306, | | | | | | | | | | | | | | |
| 307, | | | | | | | | | | | | | | |
| 308, | | | | | | | | | | | | | | |
| 309, | | | | | | | | | | | | | | |
| 310, | | | | | | | | | | | | | | |
| 901, | | | | | | | | | | | | | | |
| 902, | | | | | | | | | | | | | | |
| 003, | | | | | | | | | | | | | | |
| 04, | | | | | | | | | | | | | | |
| 005, | | | | | | | | | | | | | | |
| 906, | | | | | | | | | | | | | | |
| 07, | | | | | | | | | | | | | | |
| 08, | | | | | | | | | | | | | | |
| 09, 910 | | | | | | | | | | | | | | |

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| | | | Alternative water sou | irce | | | | |
|--|----------------------------------|---------------------|-----------------------|-------------------------|-----------------------|-----------------------|----------------|------------|
| Dwelling no. | Alternative water supply systems | Size | Configuration | Landscape connection | Toilet connection (s) | Laundry connection | Pool top-up | Spa top-up |
| 201, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410 | central water tank (no. 1) | See central systems | See central systems | no | yes | no | no | no |

| Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|------------------|------------------------------|------------------------|
| | | |
| ~ | ~ | ~ |
| | ~ | V |
| | ~ | ~ |
| | ~ | ~ |
| ~ | ~ | ~ |
| | DA plans | DA plans plans & specs |

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| (ii) Energy | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|--|------------------|------------------------------|-----------------|
| (aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and | | <u> </u> | |
| (bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump. | | • | |
| (h) The applicant must install in the dwelling: | | | |
| (aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below; | | • | |
| (bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and | | • | V |
| (cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table. | | ~ | |
| (i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated". | | V | |

| | Hot water | Hot water Bathroom ventilation system | | | ilation system | Laundry ventilation system | | |
|------------------|-------------------------------|--|----------------------|-------------------------------|----------------------|--|----------------------|--|
| Dwelling no. | | | Operation control | Each kitchen | Operation control | Each laundry | Operation control | |
| All dwellings | central hot water system 1 | individual fan, ducted to façade or roof | interlocked to light | individual fan, not ducted | manual switch on/off | individual fan, ducted to façade or roof | interlocked to light | |

| | Cooling | | Hea | Heating | | Artificial lighting | | | | | | |
|-----------------|---|------------------|---|------------------|----------------------------------|--|-----------------|------------------------------|-----------------|-----------------|--|-----------------|
| Dwelling no. | living areas | bedroom areas | living areas | bedroom areas | No. of bedrooms &/or study | No. of living &/or dining rooms | Each kitchen | All bathrooms/ toilets | Each laundry | All hallways | No. of bathrooms &/or toilets | Main kitchen |
| 200 | 1-phase airconditioning EER 3.0 - 3.5 | - | 1-phase airconditioning EER 3.5 - 4.0 | - | 2 | 1 | yes | yes | yes | yes | 0 | no |

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| | Coo | ling | Hea | Heating | | | Artificial | lighting | | | Natural lig | ghting |
|---|---|------------------|---|------------------|----------------------------------|--|--------------------|------------------------|--------------------|--------------------|--|----------------|
| Dwelling no. | living areas | bedroom areas | living areas | bedroom areas | No. of bedrooms &/or study | No. of living &/or dining rooms | Each kitchen | All bathrooms/ toilets | Each laundry | All hallways | No. of bathrooms &/or toilets | Main kitche |
| 201, 306, 406, 506, 606, 706, 806, 906 | 1-phase airconditioning EER 3.0 - 3.5 | - | 1-phase airconditioning EER 3.5 - 4.0 | - | 2 (dedicated) | 1 (dedicated) | yes (dedicated) | yes (dedicated) | yes (dedicated) | yes (dedicated) | 1 | no |
| 301, 307, 308, 309, 401, 407, 408, 409, 501, 507, 508, 509, 601, 607, 608, 609, 701, 707, 708, 709, 801, 807, 808, 809, 901, 907, 908, 909 | 1-phase airconditioning EER 3.0 - 3.5 | - | 1-phase airconditioning EER 3.5 - 4.0 | | 1 (dedicated) | 1 (dedicated) | yes (dedicated) | yes (dedicated) | yes (dedicated) | yes (dedicated) | 0 | no |

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| | Coo | ling | Hea | ting | Artificial lighting | | | | | | | al lighting | |
|--|---|------------------|---------------------------------------|------------------|----------------------------------|--|-----------------|------------------------------|-----------------|-----------------|--|---------------|--|
| Dwelling no. | living areas | bedroom areas | living areas | bedroom areas | No. of bedrooms &/or study | No. of living &/or dining rooms | Each kitchen | All bathrooms/ toilets | Each laundry | All hallways | No. of bathrooms &/or toilets | Main kitch | |
| 302, 303, 304, 305, 310, 402, 403, 404, 405, 410, 502, 503, 504, 505, 510, 605, 601, 702, 703, 704, 705, 710, 302, 303, 304, 305, 310, 906, 907, 907, 907, | 1-phase airconditioning EER 3.0 - 3.5 | - | 1-phase airconditioning EER 3.5 - 4.0 | | 2 (dedicated) | 1 (dedicated) | yes (dedicated) | yes (dedicated) | yes (dedicated) | yes (dedicated) | 0 | no | |

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| | Individual po | ool | Individual s | ра | | | Appliance | es & other effic | iency meas | ures | | |
|------------------|------------------------|-------|-----------------------|-------|-------------------------|--------------|---------------------------------------|------------------|-------------------|------------------|--|--|
| Dwelling no. | Pool heating system | Timer | Spa heating system | Timer | Kitchen cooktop/oven | Refrigerator | Well ventilated fridge space | Dishwasher | Clothes washer | Clothes dryer | Indoor or sheltered clothes drying line | Private outdoor or unsheltered clothes drying line |
| All dwellings | - | - | - | - | gas cooktop & gas oven | - | no | - | - | 4.5 star | no | no |

| (iii) Thermal Comfort | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|--|------------------|------------------------------|-----------------|
| (a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development. | | | |
| (b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol. | | | |
| (c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below. | | | |
| (d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case. | | | |
| (e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications. | | | |
| (f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications. | | ~ | ~ |
| (g) Where there is an in-slab heating or cooling system, the applicant must: | V | ~ | ~ |
| (aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or | | | |
| (bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab. | | | |
| (h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below. | V | ~ | V |

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| | | Thermal loads |
|--------------|--|--|
| Dwelling no. | Area adjusted heating load (in mJ/m²/yr) | Area adjusted cooling load (in mJ/m²/yr) |
| 200 | 50.6 | 17.5 |
| 201 | 61.6 | 38.4 |
| 301 | 64.5 | 19.2 |
| 302 | 61.7 | 15 |
| 303 | 62.1 | 18.3 |
| 304 | 66.3 | 14.9 |
| 305 | 26.8 | 19.3 |
| 306 | 50.7 | 44.4 |
| 307 | 93.6 | 36.5 |
| 308 | 93.3 | 25.3 |
| 309 | 93.7 | 18 |
| 310 | 95.1 | 13.5 |
| 401 | 39 | 21.5 |
| 402 | 39.7 | 16 |
| 403 | 43.8 | 17.8 |
| 404 | 44.9 | 15.9 |
| 405 | 33.6 | 17.1 |
| 406 | 52 | 43.7 |
| 407 | 76.6 | 44.8 |
| 408 | 92.9 | 27.6 |
| 409 | 89.6 | 22.8 |
| 410 | 82.3 | 15 |
| 501 | 39.6 | 21.7 |
| 502 | 40.3 | 16.2 |
| 503 | 44.5 | 17.7 |
| 504 | 45.6 | 16.2 |
| 505 | 34.1 | 17.1 |

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| | | Thermal loads |
|--------------|--|--|
| Dwelling no. | Area adjusted heating load (in mJ/m²/yr) | Area adjusted cooling load (in mJ/m²/yr) |
| 506 | 53 | 42.9 |
| 507 | 77.2 | 45 |
| 508 | 93.6 | 27.6 |
| 509 | 90.3 | 22.6 |
| 510 | 82.9 | 15.1 |
| 601 | 40 | 21.7 |
| 602 | 40.8 | 16.1 |
| 603 | 44.9 | 17.4 |
| 604 | 46 | 16.2 |
| 605 | 34.6 | 17.1 |
| 606 | 53.5 | 42.7 |
| 607 | 79.5 | 45.6 |
| 608 | 94.1 | 27.8 |
| 609 | 90.8 | 22.3 |
| 610 | 83.3 | 14.7 |
| 701 | 40.2 | 22 |
| 702 | 41.2 | 16 |
| 703 | 45.4 | 17.4 |
| 704 | 46.5 | 16.1 |
| 705 | 35 | 17.1 |
| 706 | 54.2 | 46.8 |
| 707 | 78.2 | 45 |
| 708 | 94.6 | 28.1 |
| 709 | 91.3 | 22.2 |
| 710 | 83.7 | 14.8 |
| 801 | 40.2 | 22.3 |
| 802 | 41.7 | 16 |

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| | | Thermal loads | | | | | |
|---------------------|--|--|--|--|--|--|--|
| Dwelling no. | Area adjusted heating load (in mJ/m²/yr) | Area adjusted cooling load (in mJ/m²/yr) | | | | | |
| 803 | 45.8 | 17.2 | | | | | |
| 804 | 46.9 | 16.1 | | | | | |
| 805 | 35.3 | 17 | | | | | |
| 806 | 54.9 | 46.2 | | | | | |
| 807 | 78.8 | 45 | | | | | |
| 808 | 95 | 27.9 | | | | | |
| 809 | 91.8 | 22.4 | | | | | |
| 810 | 83.8 | 14.9 | | | | | |
| 901 | 47.9 | 34.4 | | | | | |
| 902 | 48.4 | 26.9 | | | | | |
| 903 | 48.9 | 25.4 | | | | | |
| 904 | 47.3 | 25.8 | | | | | |
| 905 | 46 | 28.2 | | | | | |
| 906 | 65.8 | 43.8 | | | | | |
| 907 | 81.8 | 46.6 | | | | | |
| 908 | 96.7 | 43 | | | | | |
| 909 | 93.5 | 36.9 | | | | | |
| All other dwellings | 89.7 | 25.6 | | | | | |

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(b) Common areas and central systems/facilities

| (i) Water | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| (a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table. | | <u> </u> | V |
| (b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table. | ~ | ~ | ~ |
| (c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table. | V | → | |
| (d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table. | | <u> </u> | |
| (e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table. | | → | V |
| (f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table. | | • | V |

| Common area | Showerheads rating | Toilets rating | Taps rating | Clothes washers rating |
|------------------|--------------------|--------------------|--------------------|----------------------------|
| All common areas | no common facility | no common facility | no common facility | no common laundry facility |

| Central systems | Size | Configuration | Connection (to allow for) |
|--|-------|---|---|
| Central water tank - rainwater or stormwater (No. 1) | 10000 | To collect run-off from at least: - 976 square metres of roof area of buildings in the development - 0 square metres of impervious area in the development - 0 square metres of garden/lawn area in the development - 0 square metres of planter box area in the development (excluding, in each case, any area which drains to, or supplies, any other alternative water supply system). | - irrigation of 0 square metres of common landscaped area on the site - car washing in 0 car washing bays on the site |

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| (ii) Energy | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| (a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified. | | ~ | ~ |
| (b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified. | | ~ | ~ |
| (c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table. | V | ~ | V |

| | Common area | ventilation system | Common area lighting | | | |
|---------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------|-----------------------------|--|
| Common area | Ventilation system type | Ventilation efficiency measure | Primary type of artificial lighting | Lighting efficiency measure | Lighting control system/BMS | |
| Lift car (No. 1) | - | - | light-emitting diode | connected to lift call button | No | |
| Lift car (No. 2) | - | - | light-emitting diode | connected to lift call button | No | |
| GF MSB Room (Residential) | ventilation supply only | none ie. continuous | fluorescent | manual on / manual off | No | |
| GF BD Room (Residential) | ventilation supply only | none ie. continuous | fluorescent | manual on / manual off | No | |
| PL.01 HW (Residential) | ventilation (supply + exhaust) | none ie. continuous | fluorescent | manual on / manual off | No | |
| GF Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| PL.01 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| PL.02 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| L1 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| L2 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| L3 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| L4 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| L5 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| L6 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |
| L7 Fire Stair | no mechanical ventilation | - | compact fluorescent | motion sensors | No | |

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| | Common area | entilation system | Common area lighting | | | |
|----------------------|---------------------------|--------------------------------|-------------------------------------|-----------------------------|-----------------------------|--|
| Common area | Ventilation system type | Ventilation efficiency measure | Primary type of artificial lighting | Lighting efficiency measure | Lighting control system/BMS | |
| GF Residential Foyer | no mechanical ventilation | - | metal halide | motion sensors | No | |
| PL.02 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |
| L1 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |
| L2 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |
| L3 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |
| L4 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |
| L5 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |
| L6 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |
| L7 Corridor | no mechanical ventilation | - | metal halide | motion sensors | No | |

| Central energy systems | Туре | Specification |
|----------------------------------|--------------------------------------|---|
| Central hot water system (No. 1) | gas-fired storage (manifolded) | Piping insulation (ringmain & supply risers): (b) Piping internal to building: R0.45 (~20 mm) |
| Lift (No. 1) | gearless traction with V V V F motor | Number of levels (including basement): 10 |
| Lift (No. 2) | gearless traction with V V V F motor | Number of levels (including basement): 10 |

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4. Commitments for common areas and central systems/facilities for the development (non-building specific)

(b) Common areas and central systems/facilities

| (i) Water | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| (a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table. | | ~ | V |
| (b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table. | ~ | ~ | ~ |
| (c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table. | V | ~ | |
| (d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table. | | V | |
| (e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table. | | ~ | V |
| (f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table. | | V | V |

| Common area | Showerheads rating | Toilets rating | Taps rating | Clothes washers rating |
|------------------|--------------------|--------------------|--------------------|----------------------------|
| All common areas | no common facility | no common facility | no common facility | no common laundry facility |

| Central systems | Size | Configuration | Connection (to allow for) |
|-------------------------------|------|---------------|---------------------------|
| Fire sprinkler system (No. 1) | - | - | - |

| (ii) Energy | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|--|------------------|------------------------------|-----------------|
| (a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified. | | ~ | ~ |

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| (ii) Energy | Show on DA plans | Show on CC/CDC plans & specs | Certifier check |
|---|------------------|------------------------------|-----------------|
| (b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified. | | ~ | ~ |
| (c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table. | V | ~ | ~ |

| | Common area ve | entilation system | Common area lighting | | |
|-----------------------------------|---------------------------|--------------------------------|-------------------------------------|------------------------------------|-----------------------------|
| Common area | Ventilation system type | Ventilation efficiency measure | Primary type of artificial lighting | Lighting efficiency measure | Lighting control system/BMS |
| GF, PL.01 & PL.02 Car Park | no mechanical ventilation | - | fluorescent | zoned switching with motion sensor | Yes |
| PL.01 Garbage / Recycling Room | ventilation exhaust only | - | fluorescent | motion sensors | No |
| GF Pump Services Room | ventilation exhaust only | none ie. continuous | fluorescent | manual on / manual off | No |

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Notes

- 1. In these commitments, "applicant" means the person carrying out the development.
- 2. The applicant must identify each dwelling, building and common area listed in this certificate, on the plans accompanying any development application, and on the plans and specifications accompanying the application for a construction certificate / complying development certificate, for the proposed development, using the same identifying letter or reference as is given to that dwelling, building or common area in this certificate.
- 3. This note applies if the proposed development involves the erection of a building for both residential and non-residential purposes (or the change of use of a building for both residential and non-residential purposes). Commitments in this certificate which are specified to apply to a "common area" of a building or the development, apply only to that part of the building or development to be used for residential purposes.
- 4. If this certificate lists a central system as a commitment for a dwelling or building, and that system will also service any other dwelling or building within the development, then that system need only be installed once (even if it is separately listed as a commitment for that other dwelling or building).
- 5. If a star or other rating is specified in a commitment, this is a minimum rating.
- 6. All alternative water systems to be installed under these commitments (if any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: NSW Health does not recommend that stormwater, recycled water or private dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for human consumption in areas with potable water supply.

Legend

- 1. Commitments identified with a " in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).
- 2. Commitments identified with a " in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.
- 3. Commitments identified with a " in the "Certifier check" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an occupation certificate (either interim or final) for a building listed in this certificate, or for any part of such a building, unless it is satisfied that each of the commitments whose fulfillment it is required to monitor in relation to the building or part, has been fulfilled).

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